

<110> Islam Amirul
Hazra Papia

<120> An improved method of detection of target nucleic acid sequence by nucleic acid amplification

<130> 3875.033

<140> US 10/516,361

<141> 2004.11.30

<150> PCT/IN 03/00204

<151> 2003.05.30

<150> 487/MUM/2002 (IN)

<151> 2002.05.31

<160> 31

<210> 1

<211> 20

<212> DNA

<213> Artificial / Unknown Sequence

<220>

<221> primer_bind

<222>

<223> Forward PCR primer for amplification of a target sequence chosen arbitrarily and made from sequence IDs 3 & 4.

<400> 1

acttaagtta gagcggttgc

20

<210> 2

<211> 20

<212> DNA

<213> Artificial / Unknown Sequence

<220>

<221> primer_bind

<222>

<223> Reverse PCR primer for amplification of a target sequence chosen arbitrarily and made from sequence IDs 3 & 4.

<400> 2

tggtagtatg tgatttagtc

20

<210> 3

<211> 40

<212> DNA

<213> Artificial / Unknown Sequence

<220>

<221> misc_difference

<222>

<223> Arbitrarily chosen sequence. Base 27 to 40 are
complementary to basis 31 to 44 of sequence ID 4.
DNA polymerase extension of annealed Sequence IDs 3
& 4 results in the target sequence

<400> 3

tacacttaag ttagagcgtt tgcgccact acgacggtg

40

<210> 4

<211> 44

<212> DNA

<213> Artificial / Unknown Sequence

<220>

<221> misc_difference

<222>

<223> Arbitrarily chosen sequence. Base 27 to 40 are
complementary to basis 31 to 44 of sequence ID 4.
DNA polymerase extension of annealed Sequence IDs 3
& 4 results in the target sequence

<400> 4

gttttgtgg tagtatgtga ttagtcatt caaccgtcgt agtg

44

<210> 5

<211> 20

<212> DNA

<213> Artificial / Unknown Sequence

<220>

<221> primer_bind

<222>

<223> Forward PCR primer for amplification of a target
sequence chosen arbitrarily and made from sequence
IDs 3 & 4. Base t at base position 18 from 5' end is having fluorophore FAM

<400> 5

acttaagta gagcgttgc

20

<210> 6

<211> 19

<212> DNA

<213> Leishmania donovani

<220>

<221> Primer_bind gp63 gene
<222> In base segment 560-1153
<223> Forward PCR primer

<400> 6
acggagcggc tgaaggtgc

19

<210> 7
<211> 27
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> In base segment 560-1153
<223> Hair pin reverse PCR primer (Complementary)

<400> 7
aggtgcatcc actgtcctg cacctgc

27

<210> 8
<211> 21
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base a at base position 7 from 5'end is base 1094 of gp63 gene
<223> Hair pin forward PCR primer

<400> 8
aggcagatgg cgctgcctc g

21

<210> 9
<211> 25
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> In base segment 560-1153 of gp63 gene
<223> Hair pin reverse PCR primer (Complementary)

<400> 9
atgcggcgct gtagtacccc gcatc

25

<210> 10
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1114 of gp63 gene
<223> Forward PCR primer

<400> 10
gggtactac agcgccctga 20

<210> 11
<211> 28
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base g at base position 9 from 5'end is base 1153 of gp63 gene
<223> Hair pin reverse PCR primer (Complementary)

<400> 11
atggccatgt cctggaagat ggccatgg 28

<210> 12
<211> 29
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base g at base position 10 from 5'end is base 1153 of gp63 gene
<223> Hair pin reverse PCR primer (Complementary)

<400> 12
atggccatcg tcctggaaga tggccatgg 29

<210> 13
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1153 of gp63 gene
<223> Reverse PCR primer (Complementary)

<400> 13
gtcctggaag atggccatgg 20

<210> 14
<211> 20
<212> DNA

<213> Leishmania donovani

<220>

<221> Primer_bind gp63 gene

<222> Base 1 from 5'end is base 560 of gp63 gene

<223> Forward PCR primer

<400> 14

ctgcacacgg agcggctgaa

20

<210> 15

<211> 20

<212> DNA

<213> Leishmania donovani

<220>

<221> Primer_bind gp63 gene

<222> Base 1 from 5'end is base 1103 of gp63 gene

<223> Reverse PCR primer (Complementary)

<400> 15

ggacgagctc atggcgctg

20

<210> 16

<211> 20

<212> DNA

<213> Leishmania donovani

<220>

<221> Primer_bind gp63 gene

<222> In base segment 560-1153

<223> Reverse PCR primer (Complementary)

<400> 16

gtcctgttca ccttcactg

20

<210> 17

<211> 19

<212> DNA

<213> Leishmania donovani

<220>

<221> Primer_bind gp63 gene

<222> In base segment 560-1153

<223> Forward PCR primer

<400> 17

gctcatggcg cctgcctcg

19

<210> 18

<211> 19

<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> In base segment 560-1153
<223> Reverse PCR primer (Complementary)

<400> 18
gcgtgtagta ccccgcatc 19

<210> 19
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1114 of gp63 gene
<223> Base t at base position 18 from 5'end is having the fluorophore FAM on it. Forward PCR primer

<400> 19
gggtactac agcgccctga 20

<210> 20
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1153 of gp63 gene
<223> Reverse PCR primer(Complementary).Base t at base position 18 from 5'end is having fluorophore JOE on it

<400> 20
gtcctggaag atggccatgg 20

<210> 21
<211> 18
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base 1 from 5'end is base 1114 of gp63 gene
<223> Forward PCR primer Base t at base position 18 from 5'end is having fluorophore FAM on it

<400> 21

gggtactac agcgccct

18

<210> 22
<211> 29
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base g at base position 10 from 5'end is base 1153 of gp63 gene
<223> Hair pin reverse PCR primer . DABCYL at base position 1 and fluorophore JOE on base t at base position 27 from 5'end. (Complementary)

<400> 22
atggccatcg tcttgaaga tggccatgg

29

<210> 23
<211> 29
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> Base g at base position 10 from 5'end is base 1153 of gp63 gene
<223> Hair pin reverse PCR primer. DABCYL at base position 1 and fluorophore FAM on base t at base position 27 from 5'end. (Complementary)

<400> 23
atggccatcg tcttgaaga tggccatgg

29

<210> 24
<211> 19
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene
<222> In base segment 560-1153
<223> Forward PCR primer. DABCYL on base t at base position 17 from 5'end.

<400> 24
gctcatggcg cctgcctcg

19

<210> 25
<211> 20
<212> DNA
<213> Leishmania donovani

<220>
<221> Primer_bind gp63 gene

<222> Base 1 from 5'end is base 1153 of gp63 gene

<223> Reverse PCR primer. Rhodamine on base t at base position 18 from 5'end.
(Complementary)

<400> 25

gtcctggaag atggccatgg

20

<210> 26

<211> 20

<212> DNA

<213> Leishmania donovani

<220>

<221> Primer_bind gp63 gene

<222> Base 1 from 5'end is base 1153 of gp63 gene

<223> Reverse PCR primer. Fluorophore JOE on base t at base position 12 from 5'end.
(Complementary)

<400> 26

gtcctggaag atggccatgg

20

<210> 27

<211> 20

<212> DNA

<213> E. Coli k-12

<220>

<221> Primer_bind ilv y gene

<222> Base a at base position 4 from 5'end is base 3955533

<223> PCR primer for amplification of IS1 element of Tn9
sitting in ilv y locus of E.Coli

<400> 27

tgaattcaat ctgcaaacg

20

<210> 28

<211> 26

<212> DNA

<213> E. Coli k-12

<220>

<221> Primer_bind Transposon Tn9, CAT gene

<222> Base c at base position 10 from 5'end is base 1104 of Tn9

<223> PCR primer having a Bam H1 restriction site and 3 base overhang at 5'end for
amplification of IS1 element of Tn9 sitting ilv y locus of E.Coli

<400> 28

atcgatccc aaatgcctga ggccag

26

<210> 29

<211> 20

<212> DNA

<213> E. Coli k-12

<220>

<221> Primer_bind rpsT gene

<222> Base g at 5'end is base 21303

<223> Forward PCR primer

<400> 29

ggcaatgaaa agccacttct

20

<210> 30

<211> 20

<212> DNA

<213> E. Coli k-12

<220>

<221> Primer_bind rpsT gene

<222> Base g at 5'end is base 21303

<223> Reverse PCR primer. (Complementary)

<400> 30

ttaaccggcg attgagtacc

20

<210> 31

<211> 20

<212> DNA

<213> E. Coli k-12

<220>

<221> Primer_bind gene b0024 ORF with unknown function.

<222> Base a at 5'end is base 20848

<223> Reverse PCR primer. (Complementary)

<400> 31

agccttatga cgtgcagctt

20

Statement:

It is hereby declared that the sequence listing does not go beyond the content of the application as filed.